TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	24-10-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	264	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

A Mallikarjun. N.D

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	24-10-2019
Period of Soaking	24 hours	**Date of Testing**	24-10-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		662	685	657	
B	Weight of oven - dry sample gm.		650	678	650	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1690	1705	1688	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.632	2.659	2.664	2.651
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.846	1.032	1.077	1.319

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TEJUS CONSULTANTS

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants, Bangalore				
Contractor	Sri. N Lokanath Reddy				
SIEVE ANALYSIS					
Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	24-10-2019	
			Date of Testing	24-10-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	252	252	8.40	91.60	**90 - 100**
2.36 mm	321	573	19.10	80.90	**75 - 100**
1.18 mm	435	1008	33.60	66.40	**55 - 90**
0.600 mm	490	1498	49.93	50.07	**35 -59**
0.300 mm	722	2220	74.00	26.00	**8-30**
0.150 mm	624	2844	94.80	5.20	**0 - 10**
Pan	156	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .		
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor	Sri. N Lokanath Reddy		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	24-10-2019
		Date of Testing	24-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	275	275	2.75	97.25	95 - 100
10.00 mm	4850	5125	51.25	48.75	25 - 55
4.75 mm	4228	9353	93.53	6.47	0 - 10
Pan	647	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
Sample Location	At Site/Plant		**Date of Sampling**	24-10-2019	
			Date of Testing	24-10-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	545	545	5.45	94.55	**90-100**
10.0	4625	5170	51.70	48.30	**40-85**
4.75	4528	9698	96.98	3.02	**0-10**
Pan	302	10000			
Remarks :			✓ Satisfactory / Not Satisfactory		

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TEJUS CONSULTANTS

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24-10-2019	31-10-2019	7 days	8.300	22500	470	20.89	20.93
2	24-10-2019	31-10-2019	7 days	8.310	22500	472	20.98	
3	24-10-2019	31-10-2019	7 days	8.299	22500	471	20.93	

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	24-10-2019	21-11-2019	28 days	8.135	22500	680	30.22	30.22
2	24-10-2019	21-11-2019	28 days	8.138	22500	678	30.13	
3	24-10-2019	21-11-2019	28 days	8.400	22500	682	30.31	

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TEJUS
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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	28-10-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	287	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	28-10-2019
Period of Soaking	24 hours	**Date of Testing**	28-10-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		660	670	675	
B	Weight of oven - dry sample gm.		652	663	668	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1689	1695	1699	
E	Bulk specific gravity	B / (C + A - D)	2.650	2.652	2.661	2.655
G	Absorption (%)	(A - B) *100 / B	1.227	1.056	1.048	1.110
Note:						

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants, Bangalore				
Contractor	Sri. N Lokanath Reddy				
SIEVE ANALYSIS					
Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	28-10-2019	
			Date of Testing	28-10-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	250	250	8.33	91.67	**90 - 100**
2.36 mm	328	578	19.27	80.73	**75 - 100**
1.18 mm	425	1003	33.43	66.57	**55 - 90**
0.600 mm	489	1492	49.73	50.27	**35 -59**
0.300 mm	700	2192	73.07	26.93	**8-30**
0.150 mm	620	2812	93.73	6.27	**0 - 10**
Pan	188	3000			**-**

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .		
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor	Sri. N Lokanath Reddy		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	28-10-2019
		Date of Testing	28-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	278	278	2.78	97.22	95 - 100
10.00 mm	4865	5143	51.43	48.57	25 - 55
4.75 mm	4221	9364	93.64	6.36	0 - 10
Pan	636	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
Sample Location	At Site/Plant		**Date of Sampling**	28-10-2019	
			Date of Testing	28-10-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	540	540	5.40	94.60	**90-100**
10.0	4625	5165	51.65	48.35	**40-85**
4.75	4580	9745	97.45	2.55	**0-10**
Pan	255	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	28-10-2019	4-11-2019	7 days	8.310	22500	471	20.93	20.95
2	28-10-2019	4-11-2019	7 days	8.315	22500	473	21.02	
3	28-10-2019	4-11-2019	7 days	8.320	22500	470	20.89	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	28-10-2019	25-10-2019	28 days	8.135	22500	685	30.44	30.27
2	28-10-2019	25-10-2019	28 days	8.138	22500	678	30.13	
3	28-10-2019	25-10-2019	28 days	8.140	22500	680	30.22	

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	01-11-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	278	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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